

#16



1600

## RAW SEQUENCE LISTING

DATE: 02/03/2004

PATENT APPLICATION: US/09/487,790A

TIME: 14:59:31

Input Set : A:\sequence listing HAPTO-002 US.txt

Output Set: N:\CRF4\01292004\I487790A.raw

3 <110> APPLICANT: Gorodetsky, Raphael  
 4 Marx, Gerard  
 6 <120> TITLE OF INVENTION: Novel Haptotactic Peptides  
 8 <130> FILE REFERENCE: 25129  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/487,790A  
 C--> 10 <141> CURRENT FILING DATE: 2000-01-20  
 10 <160> NUMBER OF SEQ ID NOS: 12  
 12 <170> SOFTWARE: PatentIn version 3.1  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 21  
 16 <212> TYPE: PRT  
 17 <213> ORGANISM: Artificial  
 19 <220> FEATURE:  
 20 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen beta-chain  
 22 <400> SEQUENCE: 1  
 24 Lys Gly Ser Trp Tyr Ser Met Arg Lys Met Ser Met Lys Ile Arg Pro  
 25 1 5 10 15  
 28 Phe Phe Pro Gln Gln  
 29 20  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 20  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: Equivalent to an internal sequence of fibrinogen gamma-chain  
 40 <400> SEQUENCE: 2  
 42 Lys Thr Arg Trp Tyr Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro  
 43 1 5 10 15  
 46 Phe Asn Arg Leu  
 47 20  
 50 <210> SEQ ID NO: 3  
 51 <211> LENGTH: 20  
 52 <212> TYPE: PRT  
 53 <213> ORGANISM: Artificial  
 55 <220> FEATURE:  
 56 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen alpha-E-chain  
 58 <400> SEQUENCE: 3  
 60 Arg Gly Ala Asp Tyr Ser Leu Arg Ala Val Arg Met Lys Ile Arg Pro  
 61 1 5 10 15  
 64 Leu Val Thr Gln  
 65 20  
 68 <210> SEQ ID NO: 4  
 69 <211> LENGTH: 19

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70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen alpha-chain
76 <400> SEQUENCE: 4
78 Glu Ala Asp His Glu Gly Thr His Ser Thr Lys Arg Gly His Ala Lys
79 1          5          10          15
82 Ser Arg Pro
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 20
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen gamma-chain
94 <400> SEQUENCE: 5
96 Leu Thr Ile Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys Gln
97 1          5          10          15
100 Ala Gly Asp Val
101          20
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 29
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Fibrinogen C-beta consensus sequence
112 <220> FEATURE:
113 <221> NAME/KEY: MISC_FEATURE
114 <222> LOCATION: (1)..(2)
115 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,
Lys, Asn,
116          Gln, Arg, Ser, Thr
119 <220> FEATURE:
120 <221> NAME/KEY: MISC_FEATURE
121 <222> LOCATION: (7)..(7)
122 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,
Leu, Met,
123          Pro, Val, Trp, Tyr
126 <220> FEATURE:
127 <221> NAME/KEY: MISC_FEATURE
128 <222> LOCATION: (8)..(8)
129 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,
Lys, Asn,
130          Gln, Arg, Ser, Thr
133 <220> FEATURE:
134 <221> NAME/KEY: MISC_FEATURE
135 <222> LOCATION: (9)..(9)
136 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,
Leu, Met,
137          Pro, Val, Trp, Tyr
140 <220> FEATURE:
141 <221> NAME/KEY: MISC_FEATURE
142 <222> LOCATION: (10)..(10)
143 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,

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Lys, Asn,

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144      Gln, Arg, Ser, Thr
147 <220> FEATURE:
148 <221> NAME/KEY: MISC_FEATURE
149 <222> LOCATION: (12)..(12)
150 <223> OTHER INFORMATION: Xaa = Ala or Ser
153 <220> FEATURE:
154 <221> NAME/KEY: MISC_FEATURE
155 <222> LOCATION: (13)..(13)
156 <223> OTHER INFORMATION: Xaa = Any amino acid
159 <220> FEATURE:
160 <221> NAME/KEY: MISC_FEATURE
161 <222> LOCATION: (16)..(16)
162 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,
Leu,
163      Met, Pro, Val, Trp, Tyr
166 <220> FEATURE:
167 <221> NAME/KEY: MISC_FEATURE
168 <222> LOCATION: (18)..(18)
169 <223> OTHER INFORMATION: Xaa = Any amino acid
172 <220> FEATURE:
173 <221> NAME/KEY: MISC_FEATURE
174 <222> LOCATION: (19)..(19)
175 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,
Leu,
176      Met, Pro, Val, Trp, Tyr
179 <220> FEATURE:
180 <221> NAME/KEY: MISC_FEATURE
181 <222> LOCATION: (20)..(20)
182 <223> OTHER INFORMATION: Xaa = Any amino acid
185 <220> FEATURE:
186 <221> NAME/KEY: MISC_FEATURE
187 <222> LOCATION: (26)..(28)
188 <223> OTHER INFORMATION: Xaa = Any amino acid
191 <400> SEQUENCE: 6
W--> 193 Xaa Xaa Gly Val Val Trp Xaa Xaa Xaa Xaa Gly Xaa Xaa Tyr Ser Xaa
194 1          5          10          15
197 Arg Xaa Xaa Xaa Met Lys Ile Arg Pro Xaa Xaa Xaa Gln
198      20          25
201 <210> SEQ ID NO: 7
202 <211> LENGTH: 65
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Encodig haptotactic peptide C-beta
209 <400> SEQUENCE: 7
210 aaggggtcat ggtatcaatg aggaagatga gtatgaagat caggcccttc ttccacacgc 60
212 aatag 65
215 <210> SEQ ID NO: 8
216 <211> LENGTH: 63
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial

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220 <220> FEATURE:
221 <223> OTHER INFORMATION: Encoding haptotactic peptide C-alpha-E
223 <400> SEQUENCE: 8
224 agaggggcag attattccct cagggctggt cgcataaaaa ttaggccct tgtgacccaa 60
226 tag 63
229 <210> SEQ ID NO: 9
230 <211> LENGTH: 63
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Encoding haptotactic peptide Pre-C-gamma
237 <400> SEQUENCE: 9
238 aaaacccggt ggtattccat gaagaaaacc actatgaaga taatccatt caacagactc 60
240 aca 63
243 <210> SEQ ID NO: 10
244 <211> LENGTH: 15
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Haptotactic consensus sequence
251 <220> FEATURE:
252 <221> NAME/KEY: MISC_FEATURE
253 <222> LOCATION: (3)..(3)
254 <223> OTHER INFORMATION: Xaa is absent or hydrophobic amino acid selected from Ala,
Phe,
255 Ile, Leu, Met, Pro, Val, Trp, Tyr.
258 <220> FEATURE:
259 <221> NAME/KEY: MISC_FEATURE
260 <222> LOCATION: (5)..(5)
261 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
264 <220> FEATURE:
265 <221> NAME/KEY: MISC_FEATURE
266 <222> LOCATION: (6)..(6)
267 <223> OTHER INFORMATION: Xaa is absent or hydrophobic amino acid selected from Ala,
Phe,
268 Ile, Leu, Met, Pro, Val, Trp, Tyr
271 <220> FEATURE:
272 <221> NAME/KEY: MISC_FEATURE
273 <222> LOCATION: (12)..(14)
274 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
277 <400> SEQUENCE: 10
W--> 279 Tyr Ser Xaa Arg Xaa Xaa Met Lys Ile Arg Pro Xaa Xaa Xaa Gln
280 1 5 10 15
283 <210> SEQ ID NO: 11
284 <211> LENGTH: 20
285 <212> TYPE: PRT
286 <213> ORGANISM: Artificial
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Haptotactic consensus sequence
291 <220> FEATURE:
292 <221> NAME/KEY: MISC_FEATURE

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Input Set : A:\sequence listing HAPTO-002 US.txt

Output Set: N:\CRF4\01292004\I487790A.raw

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293 <222> LOCATION: (2)..(3)
294 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
297 <220> FEATURE:
298 <221> NAME/KEY: MISC_FEATURE
299 <222> LOCATION: (8)..(8)
300 <223> OTHER INFORMATION: Xaa is absent or hydrophilic amino acid selected from Asp,
Glu, His,
301      Lys, Asn, Gln, Arg, Ser, Thr
304 <220> FEATURE:
305 <221> NAME/KEY: MISC_FEATURE
306 <222> LOCATION: (10)..(10)
307 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
310 <220> FEATURE:
311 <221> NAME/KEY: MISC_FEATURE
312 <222> LOCATION: (11)..(11)
313 <223> OTHER INFORMATION: Xaa is absent or hydrophilic amino acid selected from Asp,
Glu,
314      His, Lys, Asn, Gln, Arg, Ser, Thr
317 <220> FEATURE:
318 <221> NAME/KEY: MISC_FEATURE
319 <222> LOCATION: (15)..(15)
320 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
323 <220> FEATURE:
324 <221> NAME/KEY: MISC_FEATURE
325 <222> LOCATION: (18)..(20)
326 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
329 <400> SEQUENCE: 11
W--> 331 Lys Xaa Xaa Trp Tyr Ser Met Xaa Lys Xaa Xaa Met Lys Ile Xaa Pro
      332 1          5          10          15
      335 Phe Xaa Xaa Xaa
      336          20
      339 <210> SEQ ID NO: 12
      340 <211> LENGTH: 30
      341 <212> TYPE: PRT
      342 <213> ORGANISM: Artificial
      344 <220> FEATURE:
      345 <223> OTHER INFORMATION: Fibrinogen C beta homology sequence
      347 <220> FEATURE:
      348 <221> NAME/KEY: MISC_FEATURE
      349 <222> LOCATION: (2)..(2)
      350 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,
Lys,
      351      Asn, Gln, Arg, Ser, Thr
      354 <220> FEATURE:
      355 <221> NAME/KEY: MISC_FEATURE
      356 <222> LOCATION: (4)..(5)
      357 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,
Leu, Met,
      358      Pro, Val, Trp, Tyr
      361 <220> FEATURE:
      362 <221> NAME/KEY: MISC_FEATURE
      363 <222> LOCATION: (7)..(8)
      364 <223> OTHER INFORMATION: Xaa = Any amino acid

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 02/03/2004  
 PATENT APPLICATION: US/09/487,790A      TIME: 14:59:32

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. ~~1, 2, 7, 8, 9, 10, 12, 13, 16, 18, 19, 20, 26, 27, 28~~  
 Seq#:10; Xaa Pos. ~~3, 5, 6, 12, 13, 14~~  
 Seq#:11; Xaa Pos. ~~2, 3, 8, 10, 11, 15, 18, 19, 20~~  
 Seq#:12; Xaa Pos. ~~2, 4, 5, 7, 8, 11, 12, 17, 19, 20, 24, 27, 28, 29, 30~~

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12

VERIFICATION SUMMARY

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Input Set : A:\sequence listing HAPTO-002 US.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
M:341 Repeated in SeqNo=6  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
M:341 Repeated in SeqNo=11  
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
M:341 Repeated in SeqNo=12